



Unique Identification (UID) of Items

17 March 2004

**Contractor Supported Weapon Systems
Conference
San Diego CA**



DoD Vision for Item Marking



To implement a policy establishing a strategic imperative for uniquely identifying tangible items relying to the maximum extent practical on international standards and commercial item markings and while not imposing unique government data requirements.

Uniquely identified (UID) tangible items will facilitate item tracking in DoD business systems and provide reliable and accurate data for management, financial, accountability and asset management purposes.



Joint Requirements Implementation Board



USD (AT&L)

Joint Requirements Implementation Board-UID

Lead: LeAntha Sumpter (Acquisition)

Co-chairs: Trish Vanbelle (Finance)

Alan Estevez (Logistics)

Senior Executive Council Advisor: Brad Berkson

AIT Senior
Steering
Group

CFO Rules
Group

BEA
Domain
Owners/PM

Integrated
Acquisition
Environment

UID/PC
JPMO

ISO
Standards
Working
Group

DFARS
Working
Group

Business
Rules
Integration
Group

UID/Systems
Engineering
Working
Group

AIS
Technical
Interface
Working
Group

Enterprise
Working
Group

TBD

Inspection
&
Acceptance
Working
Group

UID/RFID
Working
Group

UID/PBL
Working
Group

TBD

UID/
Maintenance
Working
Group

TBD

Grants, OT
Working
Group

TBD

UID/Export
Controls
Working
Group

TBD

JRB WAWF

UID
Registry



Key DoD & External UID Stakeholders

DoD Stakeholders

- Office Secretary of Defense
- All Services
- Joint Staff
- Defense Contract Management Agency
- Defense Logistics Information Service
- UK MoD

UID background materials and actions items are available

www.acq.osd.mil/uid

AFMC Community of Practice at
<https://afkm.wpafb.af.mil>

Industry Stakeholders

- Aerospace Industries Association (AIA)
- Government Electronics Association (GEIA)
- Uniform Code Council (UCC)
- Air Transport Association (ATA)
- Various AIT suppliers
- New York City Transit Authority
- UK Council for Electronic Business



UID Policy Implementation Timeline

Policy

- ◆ UID policy issued (implementation effective Jan 2004) - 29 Jul 03
- ◆ RFID policy - Oct 03
- ◆ UID policy revision #1 - 26 Nov 03
- ◆ UID policy revision #2 - 22 Dec 03
- ◆ (Presumed) UID policy revision #3 - Apr 04
- ◆ UID implementation for existing Govt Furnished Equipment/Property - Jan 05

DFAR Cases

- ◆ Public Hearing - May 03
- ◆ DFARS Rule published in Federal Register - 10 Oct 03
- ◆ Comments due on DFARS Rule - 10 Nov 03
- ◆ Revised DFARS Rule published in Federal Register - 30 Dec 03
- ◆ Comments due on revised DFARS Rule - 1 Mar 04

ISO 15434 Change Request

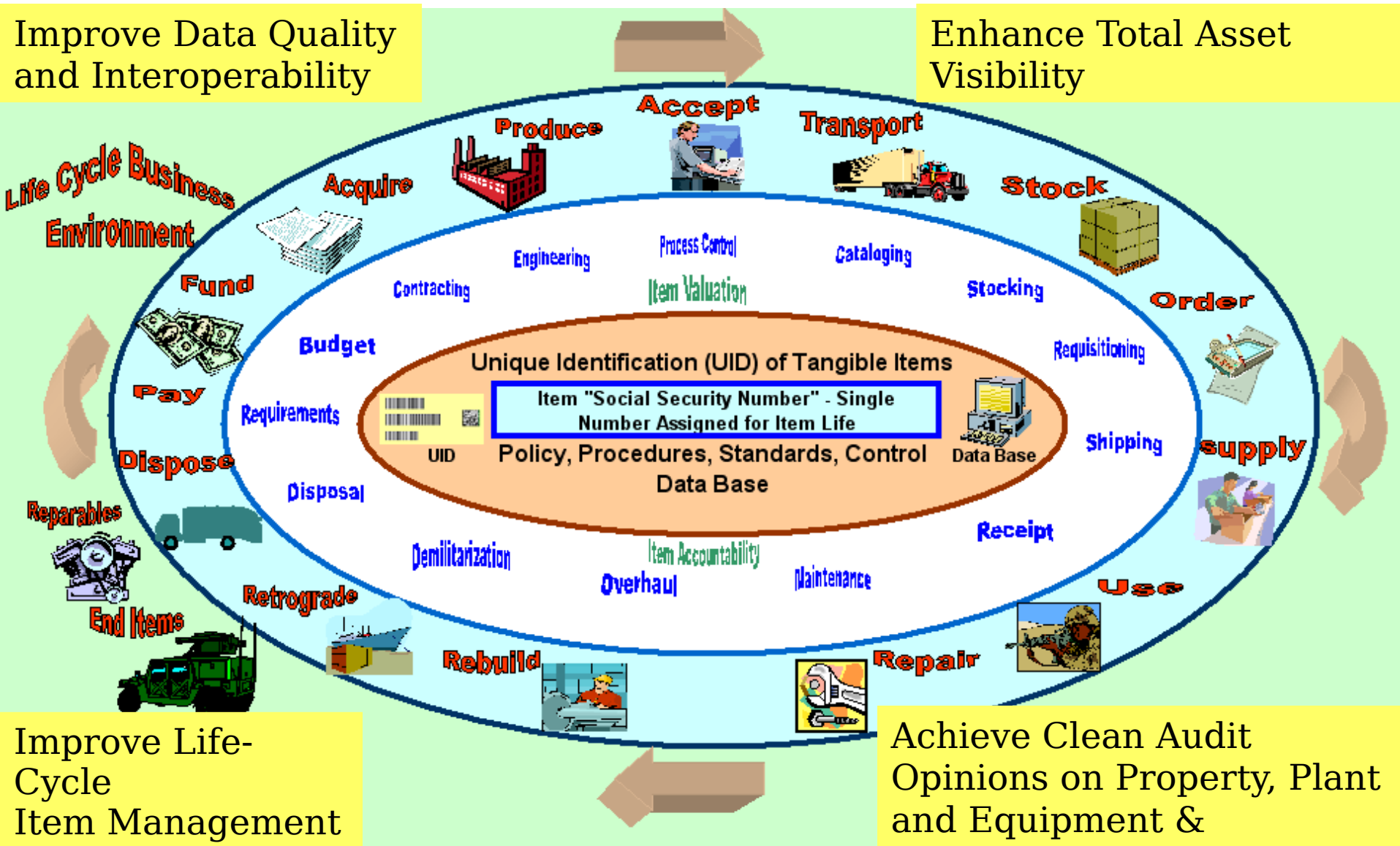
- ◆ Finalize "New Work Item Proposal" - Nov 03
- ◆ Gather change request support - ongoing
- ◆ ISO 15434 amendment decision - Jun 05

WAWF Modifications

- ◆ UID Capability IOC - Apr 04

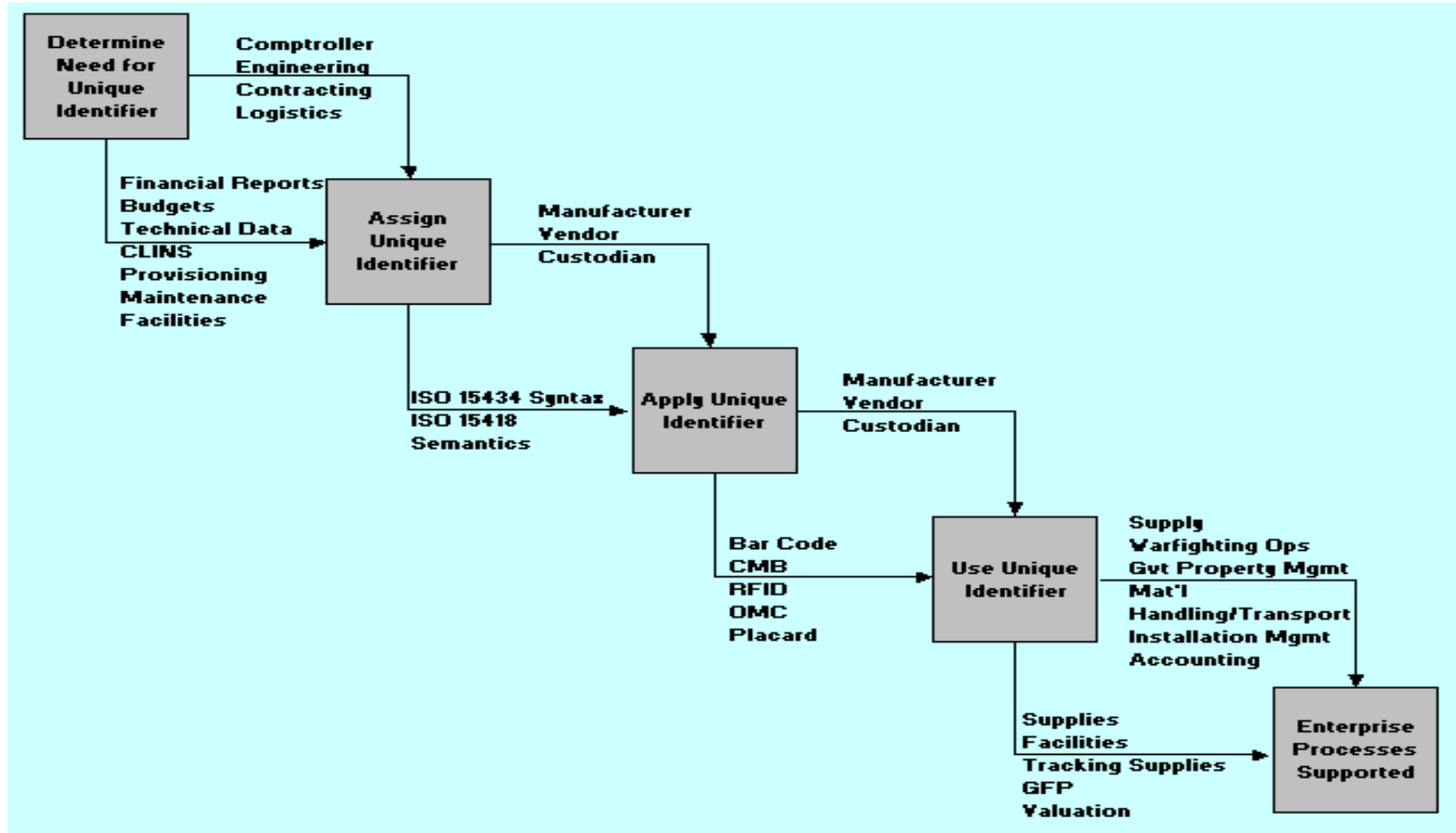


UID Role - Business Enterprise Architecture



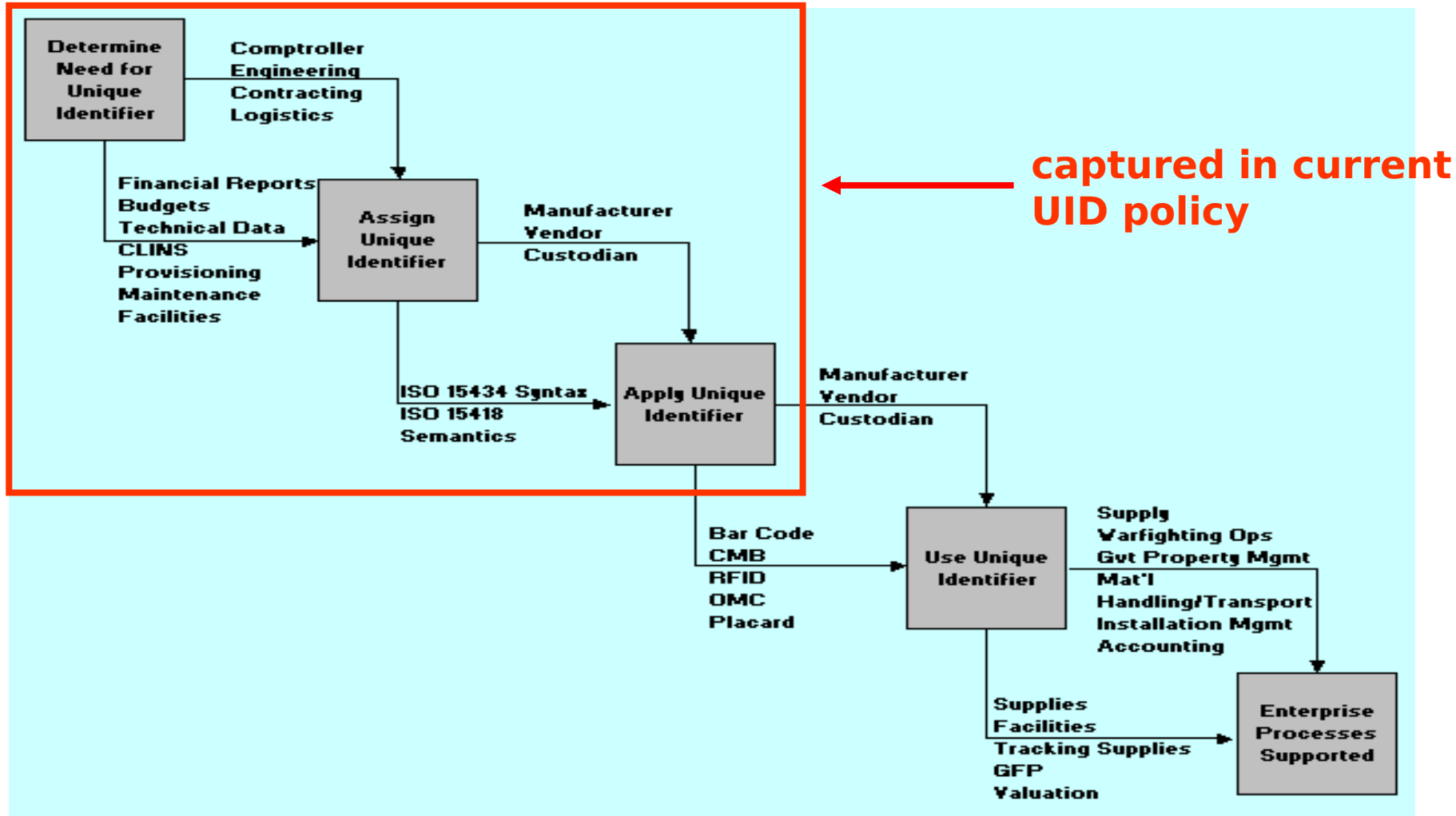


UID Interface Flow





UID Interface Flow





Requirement for UID



- ◆ All program managers for new equipment, major modifications, and reprocurments of equipment and spares shall plan to apply Unique Identification (UID) on tangible items
- ◆ UID is a mandatory DoD requirement for all solicitations issued on or after January 1, 2004
- ◆ Specific guidance related to UID requirements can be found by referring to the following sources:

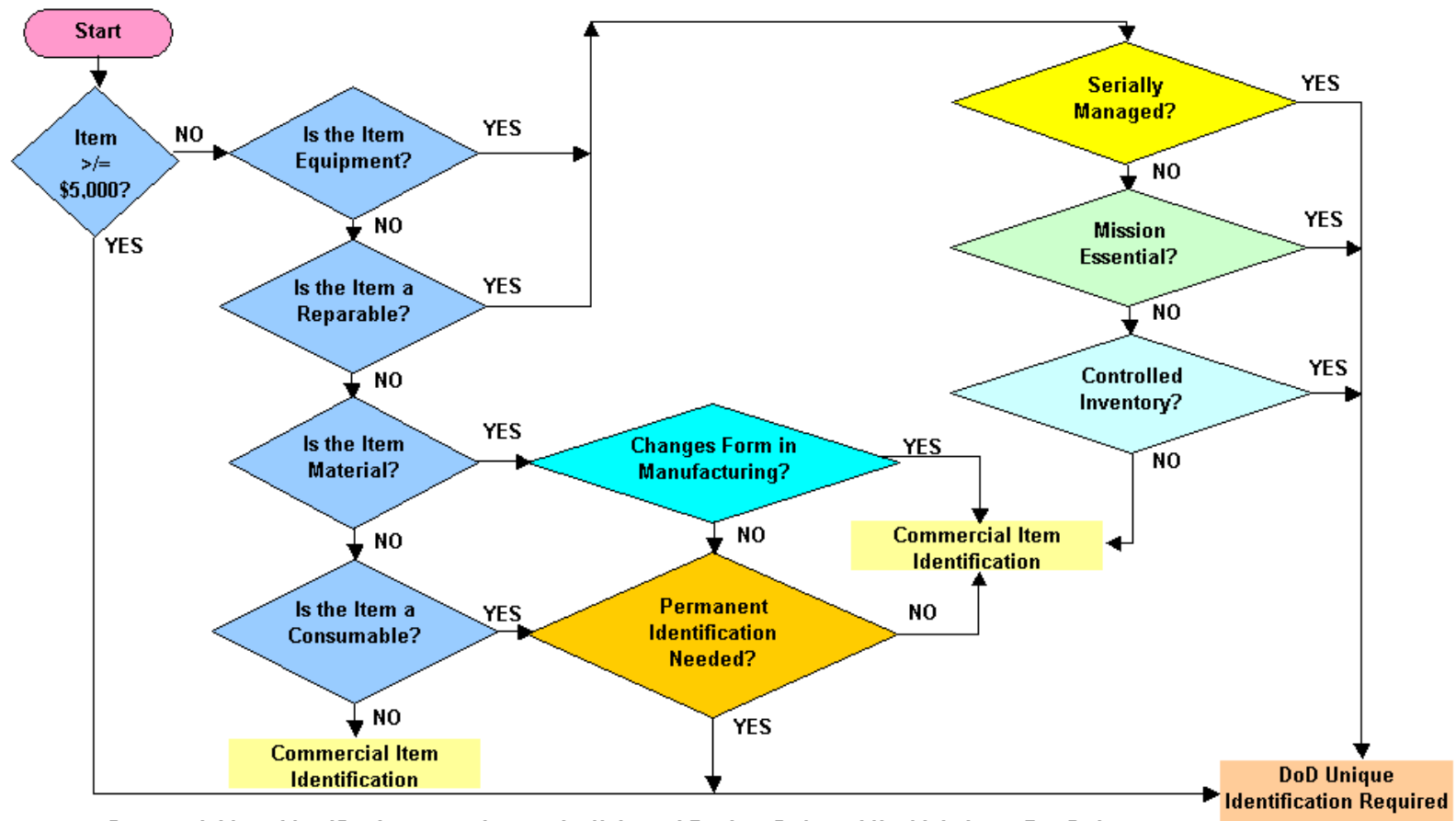
- DFARS interim rules issued 10 Oct 03 & 22 Dec 03
- DoD Guide to UID
- Coordinated Policy Guidance
- www.acq.osd.mil/uid

V. 1.3 is out;
V. 1.4 is underway



What Requires UID?

Which Items Require a Unique Identifier



Commercial item identification examples are the Universal Product Code and Health Industry Bar Code



Unique IDentification (UID) is....



UID is . . .

. . . the set of data for tangible assets that is globally unique and unambiguous, ensures data integrity and data quality throughout life, and supports multi-faceted

EID 370521



Original Part Number 1234



Serial Number 786950



EID - Enterprise Identifier

**UID NR =
D3705211234786950**



Create and Generate the UID



The components that make up the UID are identified in the table below. Each enterprise has two options for creating the UID.

	UID Construct #1	UID Construct #2
Based on current enterprise configurations	If items are serialized within the Enterprise	If items are serialized within Part Number
UID is derived by concatenating the data elements IN ORDER:	Issuing Agency Code* Enterprise ID Serial Number	Issuing Agency Code* Enterprise ID Original Part Number Serial Number
Data Identified on Assets Not Part of the UID (Separate Identifier)	Current Part Number	Current Part Number

*The Issuing Agency Code (IAC) represents the registration authority that issued the enterprise identifier (e.g., Dun and Bradstreet, EAN.UCC). The IAC can be derived from the data qualifier for the enterprise identifier.



UID Registry - Inquiry screen




UID Search Government View - Inquiry Results - Microsoft Internet Explorer provided by Northrop Grumman Corporation

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites

Address <http://131.87.2.234/uid/Scripts/ResultGovt.asp?UID=25583501-1049-511037C> Go Links



Unique Identification Registry

Proof of concept demo

UID Search Government View Inquiry Results

UID: 25583501-1049-511037C

UID TYPE: Unique Identification Construct 1, Serialization within the Enterprise

Issuing Agency Code: 007250079

Original Part Number: 501-1049-51

Serial Number: 1037C

Description: INDICATOR, ATTITUDE

Unit of Measure: EA

Acquisition Cost: 550

Contract Number: D365-03-0001

CLIN: 0126

Acceptance Date: 2004-02-09

Ship-to Code: UIC 09527

Commercial Sites

- [BarCodeNexus](#)
- [ISBN](#)
- [UCCNet](#)

Government Sites

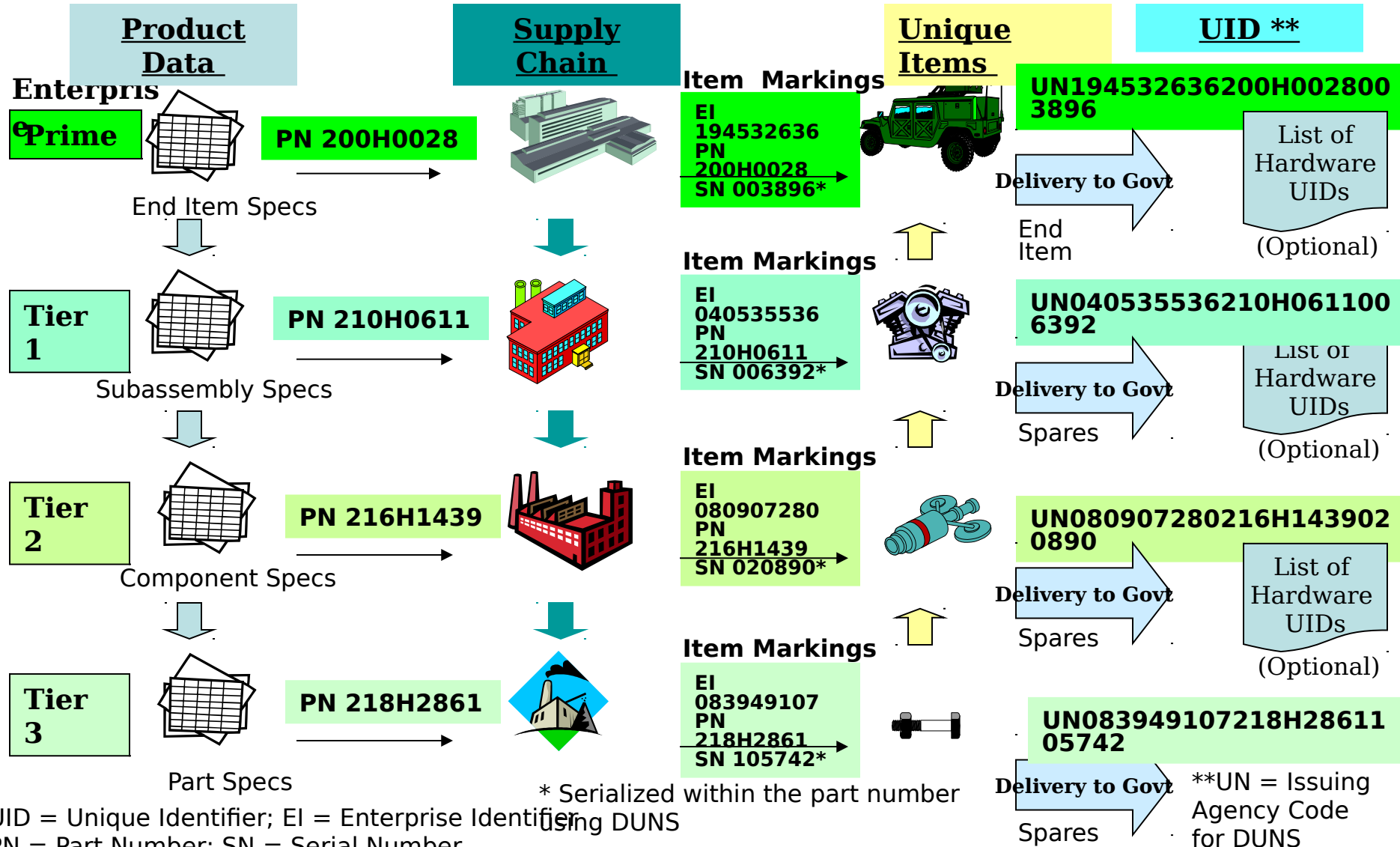
- [UDCI](#)
- [webFLIS](#)

2608 Items, 595 Unread

Internet



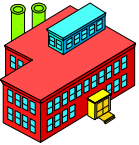
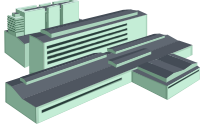
UID Reporting in the Supply Chain





UID Valuation in the Supply Chain

Supply Chain



Items Qualifying for UID

Item Markings

EI
194532636
PN
200H0028
SN 003896*



Delivery to Govt

End Item

Item Markings

EI
040535536
PN
210H0611
SN 006392*

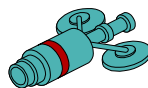


Delivery to Govt

Spares

Item Markings

EI
080907280
PN
216H1439
SN 020890*



Delivery to Govt

Spares

Item Markings

EI
083949107
PN
218H2861
SN 105742*



Delivery to Govt

Spares

UID ** Deliverables

UN194532636200H002800
3896
CLIN Valuation for
end item

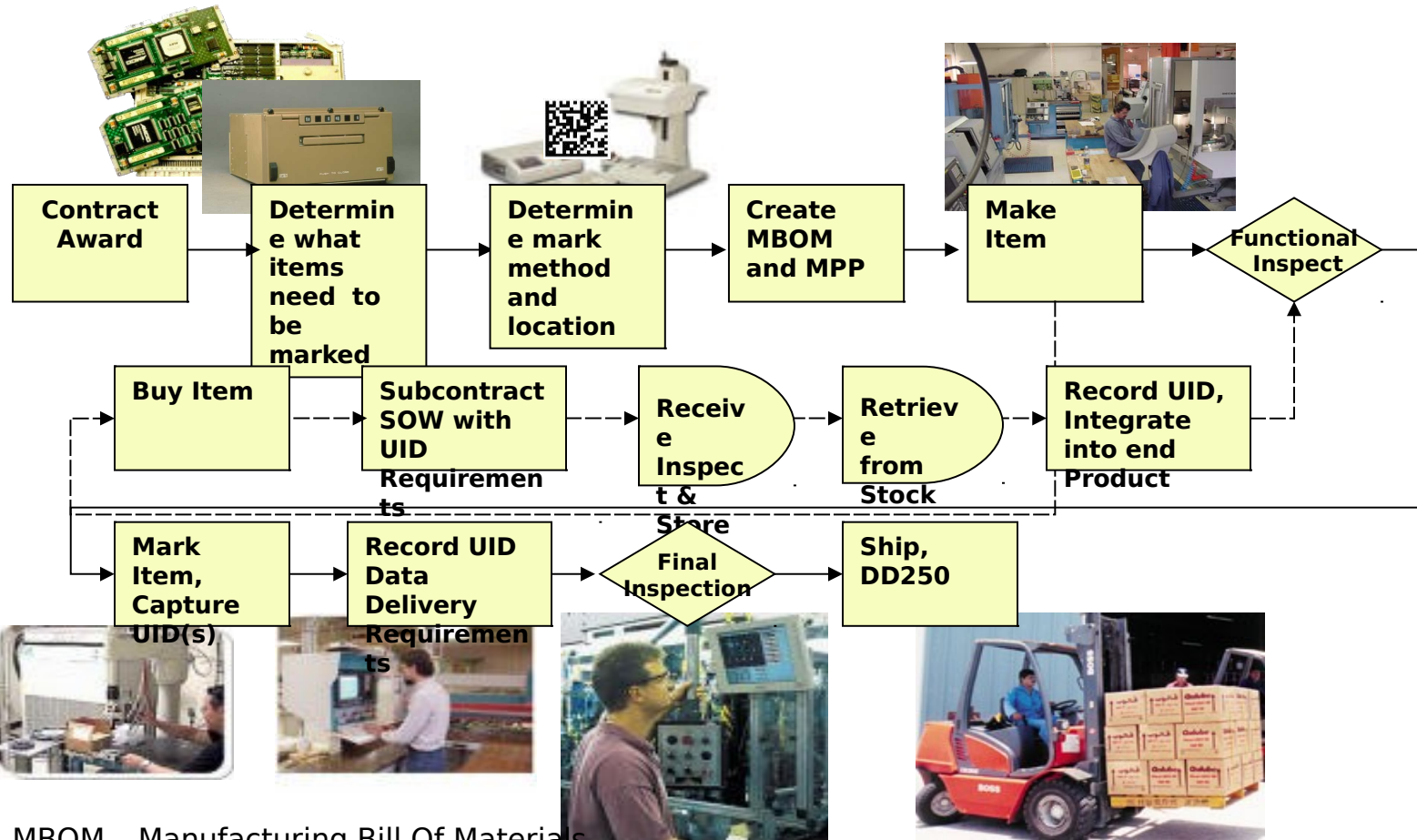
UN040535536210H061100
6392
CLIN Valuation - if
delivered as separate
end item

UN080907280216H143902
0890
CLIN Valuation - if
delivered as separate
end item

UN083949107218H28611
05742
CLIN Valuation - if
delivered as separate
end item

UID = Unique Identifier; EI = Enterprise Identifier Serialized within the part number using DUNS
PN = Part Number; SN = Serial Number

**UN = Issuing Agency Code for DUNS



MBOM – Manufacturing Bill Of Materials
MPP – Manufacturing Process Planning



UID Contracting Effects



- ◆ New subject for all acquisition personnel
- ◆ Potential CLIN/SubCLIN Issue (DFARS 204.7104)
- ◆ New solicitation provision and contract clause (DFARS 252.211-7003, 1 Jan 04)
- ◆ Delayed impact on existing GFP 1 Jan 05)
- ◆ New data collection and payment system (Wide Area Work Flow, mandatory on 1 Jan 05)



Current UID Activity



- ◆ Two interim rules published (10 Oct 03 and 26 Nov 03)
 - Public comment on second interim rule closed 1 Mar 04
 - Expect further interim guidance before any final rule is issued
- ◆ OSD guidance continues to emerge
 - OSD Information Paper on UID & Contracting (PDF file) - under review for possible recall
 - Early draft of business case for policy changes to FAR Part 45
- ◆ Expect further policy guidance to emerge as DoD working groups continue to work issues
 - OSD working with ATA and ISO towards collaborative solution
 - OSD program office has shown honest interest in what we think



Some UID Issues



- ◆ AF/ILI tasking to assess UID impact on depot-manufactured items
 - Estimated 2023 parts manufactured in FY03 that > \$5K threshold
 - 776 unique part numbers
 - Cost of UID not yet programmed into depot rates
- ◆ Overall, cost of UID is still an unknown
 - Cost of changing drawings, tech orders, work specifications
 - Costs to develop data system interfaces for end item tracking
 - Material support costs associated with shipping, storage, disposal
- ◆ Implementation on repair contracts still unclear
- ◆ UID implementation plan requirement
 - Initial plan to cover depot-manufactured items
 - OSD (Mr. Wynne) looking for plan during program reviews
 - OSD supposed to provide template in mid-March



UID Outcomes “Down the Road”

- ◆ Comprehensive, timely data about each uniquely identified item throughout the supply chain
 - Generation, collection and analysis of maintenance data
 - End-to-end tracking and traceability of unique items
 - Reliability and maintainability information on each item throughout its life cycle
- ◆ Improved supply chain efficiency
 - Administrative cost reduction
 - Reduced stock levels
 - Simplicity, standardization, speed and certainty in automated data capture and electronic information exchange
- ◆ Integrated transportation and movement of individually identified items
- ◆ Leveraged commercial technologies and practices



AFMC UID Points of Contact

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